

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave.St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001772**Date Inspected:** 12-Feb-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Don Watson**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:****Bridge No:** 34-0006**Component:** OBG Components**Bid Item:****Lot No:** B-278**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance Inspector (QA) S. Manjunath. Math was present during the times noted above for observations relative to the work being performed.

Inspection for Surface Preparation and/or Coating Application.

OBG External Surface Preparation Inspection Request No. 2665

A joint two party inspection was performed by ABF QA's and Caltrans QA for the Orthotropic Box Girder (OBG) External Surface for Segment 7EW at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC) at blasting workshop no. 1 for Surface Preparation, Dry Film Thickness (DFT) Check, Residual Chloride Test/Salt Test, Methyl Ethyl Ketone (MEK) and Pencil Hardness Test.

Inspection Conclusions: Accepted by ABF QA's, except Low DFT areas which have been masked off for Low DFT, 2 (Two) locations Residual Chloride Test/ Salt Test been performed with 10 microns/cm and 20 microns/cm, 8 (Eight) locations MEK performed and found acceptable by AFB QA's and Caltrans QA concurred with the ABF QA's Inspection.

OBG Internal Surface Preparation Inspection Request No. 2666

A joint two party inspection was performed by ABF QA's and Caltrans QA for the Orthotropic Box Girder (OBG) Internal entire floor from the weld seam to PP 58 to PP 57 for Segment 7DW at Shanghai Zhenhua Port Machinery

---

## SOURCE INSPECTION REPORT

( Continued Page 2 of 3 )

---

Co., Ltd., (ZPMC) at blasting workshop no. 1 for Surface Preparation.

Inspection Conclusions: The inspection notification was cancelled by ZPMC QC and thus no inspection was been performed by ABF QA's and Caltrans QA.

OBG Internal Surface Preparation Inspection Request No. 2667

A joint two party inspection was performed by ABF QA's and Caltrans QA for the Orthotropic Box Girder (OBG) Internal entire floor from the weld seam to PP 58 to PP 57 for Segment 7DW at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC) at blasting workshop no. 1 for Surface Preparation.

Inspection Conclusions: The inspection notification was cancelled by ZPMC QC and thus no inspection was been performed by ABF QA's and Caltrans QA.

OBG External Weld Seam Surface Preparation Inspection Request No. 2668

A joint two party inspection was performed by ABF QA's and Caltrans QA for the Orthotropic Box Girder (OBG) External weld seam between 5BE and 5CE, OBG External cross beam terminal bottom plate external surface re-blasting for Segment Lift 5 East and OBG external damaged area repair for Lift 5 West at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC) at OBG Assembly Yard for Surface Preparation.

Inspection Conclusions: Accepted by ABF QA's after feathering off the edges and blowing the dust off. Profile test been performed at three location and found surface profile within the ranges of 74 microns to 82 microns. The inspection notification was cancelled by ZPMC QC and thus no inspection was been performed by ABF QA's and Caltrans QA.

OBG External Surface Preparation Inspection Request No. 2669

A joint two party inspection was performed by ABF QA's and Caltrans QA for the Orthotropic Box Girder (OBG) Internal entire floor from the weld seam to PP 58 to PP 57 for Segment 7DW at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC) at blasting workshop no. 1 for Surface Preparation.

Inspection Conclusions: Accepted by ABF QA's after minor re-blasting and Caltrans QA concurred with the ABF QA's Inspection.

OBG Internal Ceiling DFT Check Inspection Request No. 2671

A joint two party inspection was performed by ABF QA's and Caltrans QA for the Orthotropic Box Girder (OBG) Internal Ceiling entire floor from the weld seam to PP 58 to PP 57 for Segment 7DW at Shanghai Zhenhua Port Machinery Co., Ltd., (ZPMC) at blasting workshop no. 1 for Surface Preparation.

Inspection Conclusions: Accepted by ABF QA's after minor re-blasting and Caltrans QA concurred with the ABF QA's Inspection.

---

## SOURCE INSPECTION REPORT

( Continued Page 3 of 3 )

---

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

No Relevant Conversation

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric T Sang 1500-0042-2372, who represents the Office of Structural Materials for your project.

---

<b>Inspected By:</b>	Math,Manjunath	Quality Assurance Inspector
<b>Reviewed By:</b>	Miller,Mark	QA Reviewer

---